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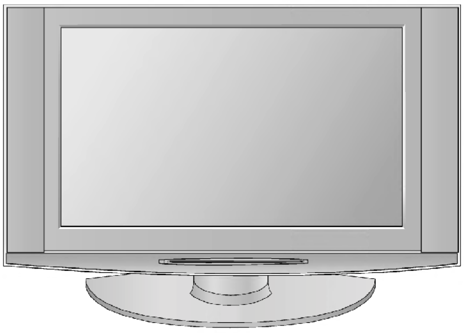
LCD TV
SERVICE MANUAL

CHASSIS : ML-051A

MODEL : 32LX2R-TE

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SVC. SHEET ....

SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

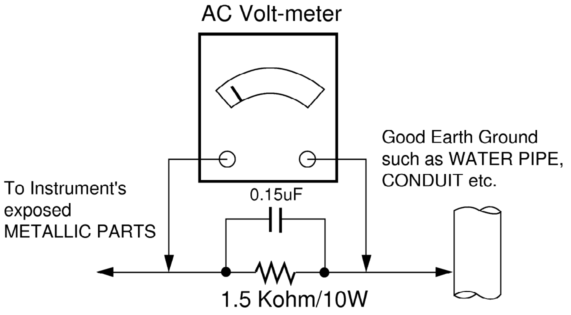
Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
    a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
    b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
    c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
    CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
   Do not test high voltage by "drawing an arc".
3. Do not spray chemicals on or near this receiver or any of its assemblies.
4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
8. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices.* Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500 °F to 600 °F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle.
   Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
    a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)
    b. Heat the component lead until the solder melts.
    c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
    CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
    a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)
    b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
    c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
    CAUTION: Work quickly to avoid overheating the circuit board printed foil.
    d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.
   Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

This specification is applied to ML-051A chassis.

2. Requirement for Test

Testing for standard of each part must be followed in below condition.

(1) Temperature: 25°C ± 2°C
(2) Humidity: 65% ± 10%
(3) Power: Standard input voltage (AC 100-240V, 50/60Hz)
(4) Measurement must be performed after heat-run more than 30min.
(5) Adjusting standard for this chassis is followed a special standard.

3.General Specification(TV)

No	Item	Specification	Remark
1.	Video input applicable system	PAL-D/K, B/G, I, NTSC-M, SECAM	ZE, TE
		NTSC 4.43	(ME)
2.	Receivable Broadcasting System	1) PAL/SECAM BG	(ZE/TE)
		2) PAL/SECAM DK	EU/Non-EU
		3) PAL I/I	(PAL Market)
		4) SECAM L/L'	
		5) NTSC M	
		6) PAL-N/M	6),7) South America Market
		7) NTSC M	7) Except South America NTSC Market (ME)
3.	RF Input Channel	VHF : E2 ~ E12	PAL
		UHF : E21 ~ E69	
		CATV : S1 ~ S20	
		HYPER : S21~ S41	
		L/L' : B, C, D	FRANCE
		VHF : 2~13	NTSC
		UHF : 14~69	
		CATV : 1~125	
		VHF Low : 1 ~ M10	JAPAN
		VHF High : 4~S22	
		UHF : S23~62	
4.	Input Voltage	AC 100 ~ 240 V/50Hz, 60Hz	
5.	Market	Worldwide	
6.	Picture Size	800.4 mm(diagona)	31.51 inch
7.	Tuning System	FVS 100 program	PAL,200 PR.(Option)
		FS	NTSC
8.	Operating Environment	1) Temp : 0 ~ 40 deg	
		2) Humidity : 10~85 %	
9.	Storage Environment	3) Temp : -20 ~ 60 deg	
		4) Humidity : 10~85 %	
10.	Display	LCD Module	LPL

4. General Specification

No	Item	Specification			Unit	Remark
1	Panel	32" TFT WXGA LCD				
2	Frequency range	H : 31 ~ 61Khz V : 56 ~ 75Hz				PC Input
3	Control Function	1) Contrast/Brightness 2) H-Position / V-Position 3) Tracking : Clock / Phase 4) Auto Configure 5) Reset				
4	Component Jack	1 : Y 3 : Pb 5 : Pr 7 : Line1 Ready 9 : LINE2 11: LINE3 13: Line3 Ready				ZE(SIDE) TE/ME(REAR, SIDE) 480i, 480p, 720p, 1080i
	D4 Jack (525i,525p,750p,1125i)	2 : Y GND 4 : Pb GND 6 : Pr GND 8 : LINE1 10:Line2 Ready 12:SWITCH GND 14: SWITCH				JAPAN Only
5		H/V-Sync	Video	Power consumption		LED
	Power ON	ON/ON	Active	≤ max 140W	W	Green
	Stand by	OFF/ON	OFF	≤ 3.0W	W	Red
	DPMS Mode	ON/OFF	OFF	≤ typ. 30W	W	Green
	Power off	-	-	-	W	*
6	LCD Module	Type Size	LPL	760.0 x 450.0 x 48.0	mm	(H) x (V) x (D)
		Pixel Pitch	LPL	170.25 x 510.75 x RGB	㎛	
		Pixel Format	1366 horiz. By 768 vert. Pixels RGB strip arrangement			
		Coating	Hard coating(3H), Anti-glare treatment of the front polarizer,			
		Back Light	LPL	20EEFL		

5.Optical Feature(LCD Module)

No.	Item	Specification						Remark
					Min	Typ	Max	
1	Viewing Angle (CR>10)	R/L, U/D				176, 176	176, 176	
2	Luminance	Luminance(cd/㎡)				500		Typical
		Variation					1.3	MAX/MIN
3	Contrast Ratio				400/800	600/1200		ALL white/All back
4	CIE Color Coordinates	WHITE	W_X	Typ.	Typ. -0.03	0.285	Typ. +0.03	
			W_Y	Typ.		0.293		
		RED	R_X	Typ.		0.640		
			R_Y	Typ.		0.343		
		GREEN	G_X	Typ.		0.280		
			G_Y	Typ.		0.605		
		BLUE	B_X	Typ.		0.145		
			B_Y	Typ.		0.065		

6.Component Video Input (Y, PB, PR)

No	Specification				Proposed
	Resolution	H-freq(kHz)	V-freq(Hz)		
1.	640x480	15.73	60	SDTV, DVD 480i	ZE, TE, ME
2.	640x480	15.63	59.94	SDTV, DVD 480i	ZE, TE, ME
3.	704x480	31.47	59.94	EDTV 480p	TE, ME
4.	720x576	15.625	50.00	SDTV, DVD 625 Line	ZE, TE, ME
5.	720x576	31.25	50.00	HDTV 576p	TE, ME
6.	1280x720	45.00	60.00	HDTV 720p	TE, ME
7.	1280x720	44.96	59.94	HDTV 720p	TE, ME
8.	1920x1080	31.25	50.00	HDTV 1080i 50Hz (AU Ver.)	TE, ME
9.	1920x1080	33.75	60.00	HDTV 1080i 60Hz (ATSC)	TE, ME
10.	1920x1080	33.72	59.94	HDTV 1080i 59.94Hz	TE, ME

7. PC INPUT Mode Table

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
	Analog RGB, Digital RGB				
1	720x400	31.468	70.8	28.321	
2	640x480	31.469	59.94	25.17	VESA
		37.684	75.00	31.5	VESA
3	800x600	37.879	60.31	40.00	VESA
		46.875	75	49.5	VESA
4	832x624	49.725	74.55	57.283	
5	1024x768	48.363	60.00	65.00	VESA(XGA)
		56.47	70.00	75.00	VESA(XGA)
		60.123	75.029	78.75	VESA(XGA)
6	1280x768	47.776	59.870	79.50	VESA(WXGA)
7	1360x768	47.720	59.799	84.75	VESA(WXGA)
8	1366x768	47.720	59.799	84.75	Supported
9	1920x1080	33.75	60.00	86.375	HDCP DVI Digital 1080i
10	1280x720	45.00	60.00	74.375	HDCP DVI Digital 720p

8. HDMI INPUT Mode Table

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
	Analog RGB, Digital RGB				
1	720x400	31.468	70.8	28.321	
2	640x480	31.469	59.94	25.17	VESA
		37.684	75.00	31.5	VESA
3	800x600	37.879	60.31	40.00	VESA
		46.875	75	49.5	VESA
4	832x624	49.725	74.55	57.283	
5	1024x768	48.363	60.00	65.00	VESA(XGA)
		56.47	70.00	75.00	VESA(XGA)
		60.123	75.029	78.75	VESA(XGA)
6	1280x768	47.776	59.870	79.50	VESA(WXGA)
7	1360x768	47.720	59.799	84.75	VESA(WXGA)
8	1366x768	47.720	59.799	84.75	Supported
9	1920x1080	33.75	60.00	86.375	HDCP DVI Digital 1080i
10	1280x720	45.00	60.00	74.375	HDCP DVI Digital 720p

9. Mechanical specification

<Table 1> Scart Arrangement 1.(Full Scart)

Pin	Signal	Signal Level	Impedance
1	Audio Output B (right)	0.5 Vrms	< 1 kΩ
2	Audio Input B (right)	0.5 Vrms	> 10 kΩ
3	Audio Output A (left)	0.5 Vrms	< 1 kΩ
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5 Vrms	> 10 kΩ
7	Blue input	0.7 V	75 Ω
8	Function Select (AV control)	High (9.5 - 12V) - AV Mode	
		Mid (5 - 8V) - Wide Screen	
		Low (0 - 2V) - TV Mode	> 10 kΩ
9	Ground (Green)	-	-
10	Comms Data 2		
11	Green input	0.7 V	75 Ω
12	Comms Data 1		
13	Ground (Red)	-	-
14	Ground (Blanking)	-	-
15	Red input	0.7 V	75 Ω
16	RGB Switching Control	High (1 - 3V) - RGB	
		Low (0 - 0.4V) - Composite	75 Ω
17	Ground (Video input & Output)	-	-
18	Ground (RGB Switching Control)	-	-
19	Video output (Composite)	1V including sync	75 Ω
20	Video input (Composite)	1V including sync	75 Ω
21	Common ground (Shield)	-	-

<Table 2> Scart Arrangement 2.(Half Scart)

Pin	Signal	Signal Level	Impedance
1	Audio Output B (right)	0.5 Vrms	< 1 ㏀
2	Audio Input B (right)	0.5 Vrms	> 10 ㏀
3	Audio Output A (left)	0.5 Vrms	< 1 ㏀
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5 Vrms	> 10 ㏀
7	-	-	-
8	Function Select (AV control)	High (9.5 - 12V) - AV Mode Mid (5 - 8V) - Wide Screen Low (0 - 2V) - TV Mode	> 10 ㏀
9	Ground (Green)	-	-
10	Comms Data 2		
11	-	-	-
12	Comms Data 1		
13	Ground (Red)	-	-
14	Ground (Blanking)	-	-
15	Red input		
16	-	-	-
17	Ground (Video input & Output)	-	-
18	-	-	-
19	Video output (Composite)	1V including sync	75 Ω
20	Video input (Composite)	1V including sync	75 Ω
21	Common ground (Shield)	-	-

ADJUSTMENT INSTRUCTION

1. Application Range

This spec. sheet is applied to all of the ML-051A chassis (TORNADO) manufactured at LG TV Plant

2. Specification.

2.1 Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help to protect test instruments.

2.2 Adjustment must be done in the correct sequence.

2.3 The adjustment must be performed at 25±5°C temperature and 65±10% relative humidity if there is no specified designation.

2.4 The input voltage of the receiver must be kept between 100~220V, 50/60Hz.

2.5 Before adjustment, execute Heat-Run for 30 minutes at RF no signal.

3. EDID

* Caution

- Use the proper signal cable for EDID Download
  Analog EDID: Pin3 exists
  Digital EDID: Pin3 exists

Caution: - Never connect HDMI & DVI-D & DVI-A Cable at the same time.
- Use the proper cables below for EDID Writing

No	Item	Content	Hexadecimal
1	Manufacturer ID	GSM	1E6D
2	Version	Digital 1	01
3	Revision	Digital 3	03

3.1 Data

3.1.1 ANALOG(128Bytes)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	**a**		**b**			
10	**c**		01	03	01	46	27	78	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	6E	80	31	40	01	01	01	01	45	40	01	01
30	61	40	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88
40	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30
50	40	80	37	00	BC	88	21	00	00	18	00	00	00	FD	00	38
60	4B	1F	3D	09	00	0A	20	20	20	20	20	20	00	00	00	FC
70	**d**										0A	20	20	20	00	**e**

3.2.2 DIGITAL(128Bytes)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	**a**		**b**			
10	**c**		01	03	80	46	27	78	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	6E	80	31	40	01	01	01	01	45	40	01	01
30	61	40	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88
40	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30
50	40	80	37	00	BC	88	21	00	00	18	00	00	00	FC	00	33
60	**d**								0A	20	20	20	00	00	00	FD
70	00	38	4B	1F	3D	09	00	0A	20	20	20	20	20	20	00	**e**

3.2.3 EDID FOR HDMI(256Bytes)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	**a**		**b**			
10	**c**		01	03	80	46	27	78	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	6E	80	31	40	01	01	01	01	45	40	01	01
30	61	40	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88
40	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30
50	40	80	37	00	BC	88	21	00	00	18	00	00	00	FC	00	33
60	**d**								0A	20	20	20	00	00	00	FD
70	00	38	4B	1F	3D	09	00	0A	20	20	20	20	20	20	01	**e**

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	02	03	21	1C	46	85	04	02	01	03	00	23	09	07	07	23
10	09	07	07	23	09	07	07	83	01	00	00	65	03	0C	00	10
20	00	01	1D	00	80	51	D0	1C	20	40	80	35	00	BC	88	21
30	00	00	1E	8C	0A	D0	8A	20	E0	2D	10	10	3E	96	00	13
40	8E	21	00	00	18	2A	12	00	10	41	43	17	20	28	60	35
50	00	00	00	32	00	00	1C	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	1E

3.2.4 Detail EDID Options are below(a, b, c, d, e)

a. Product ID

Model name	Product ID	Product ID		
		Dec	Hex	EDID Table
26LX2R	22039(A)	22039(A)	5617	1756
	22040(A)	22040(D)	5618	1856
32LX2R	30041(A)	30041(A)	7559	5975
	30042(D)	30042(D)	755A	5A75
32LP1R	30039(A)	30039(A)	7557	5775
	30040(D)	30040(D)	7558	5875
37LP1R	30043(A)	30043(A)	755B	5B75
	30044(D)	30044(D)	755C	5C75
42LP1R	40013(A)	40013(A)	9C4D	4D9C
	40014(D)	40014(D)	9C4E	4E9C

b. Serial No : Controlled on production line

c. Month, Year : Controlled on production line

d. Model Name(Hex) :

Model Name	Model Name(HEX)
26LX2R-ZE	32364C5832522D5A45
32LX2R-ZE	33324C5832522D5A45
32LP1R-ZE	33324C5031522D5A45
37LP1R-ZE	33374C5031522D5A45
42LP1R-ZE	34324C5031522D5A45

e. Checksum: ChangeCable by total EDID data

4. ADC Calibration

4.1 Adjustment of RF/AV/SAV
* Test Equipment
- Remote controller for adjustment
- MSPG-925F Pattern Generator->Model: 202 / Pattern: 32

4.1.1 Method of Auto RF/AV/S-VIDEO Color Balance.
1) Input the Video Signal: 75% Color Bar signal into AV3 (ZE), AV1(TE), VIDEO1(ME)
2) Set the PSM to Standard mode in the Picture menu.
3) Press ADJ key on R/C for adjustment.
4) Press the ▶(Vol. +) key to operate the set, then it becomes automatically.
5) Auto-RGB OK means the adjustment is completed.

4.2 Adjustment of Component.
* Required Equipments
- Remote controller for adjustment
- MSPG-925F Pattern Generator->Model: 215 / Pattern: 33

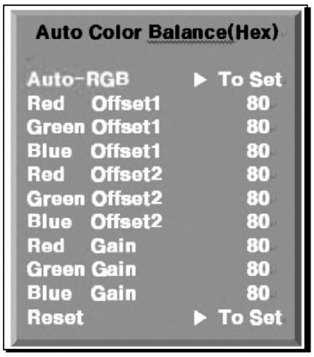
4.2.1 Method of Auto Component Color Balance
1) Input the Component 720p 100% Color Bar(MSPG-925F model:215, pattern:33) signal into Component. (ZE : component , TE/ME : component 1 or 2)
2) Set the PSM to Standard mode in the Picture menu.
3) Press the ADJ key on R/C for adjustment.
4) Press the ▶(Vol. +) key to operate the set , then it becomes automatically.
5) Auto-RGB OK means the adjustment is completed.

4.3 Adjustment of RGB
* Required Equipments
- Remote controller for adjustment
- MSPG-925F Pattern Generator

4.3.1 Method of Auto RGB Color Balance
1) Input the PC 1024x768@60Hz 1/2 Black & White Pattern(MSPG-925F model:37, pattern:18) into RGB. (using D-sub to DVI-I cable)
2) Set the PSM to Standard mode in Picture menu.
3) Press the ADJ key on R/C for adjustment.
4) Press the ▶(Vol. +) key operate To set , then it becomes automatically.
5) Auto-RGB OK means adjustment is completed.

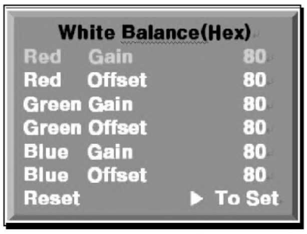
5. white Balance

5.1 Manual white Balance (AV)
1) Execute CA-110 Zero Calibration.
2) Execute the SET Heat Run for 30minutes
3) Push the ADJ Button then you can see the OSD



Auto Color Balance(Hex)
Auto-RGB ▶ To Set
Red Offset1 80
Green Offset1 80
Blue Offset1 80
Red Offset2 80
Green Offset2 80
Blue Offset2 80
Red Gain 80
Green Gain 80
Blue Gain 80
Reset ▶ To Set

4) Push the ADJ Button again for White Balance mode



White Balance(Hex)
Red Gain 80
Red Offset 80
Green Gain 80
Green Offset 80
Blue Gain 80
Blue Offset 80
Reset ▶ To Set

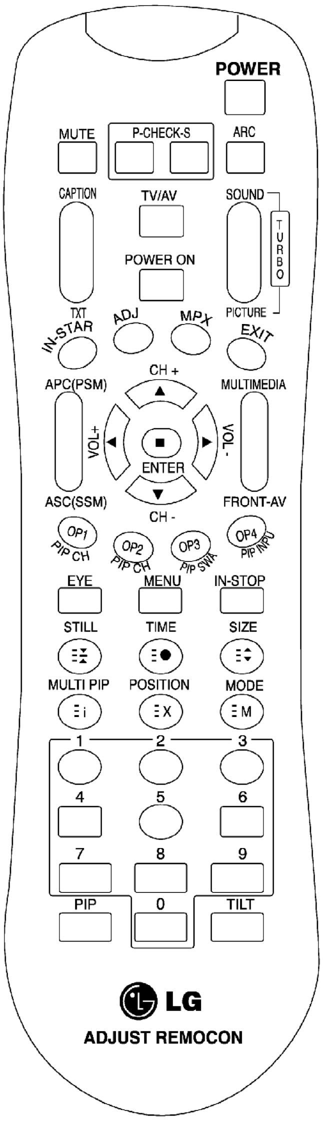
5) Adjust High light with R/B Gain/Offset(G Gain fix, G Offset fix)

6. Shipping Conditions

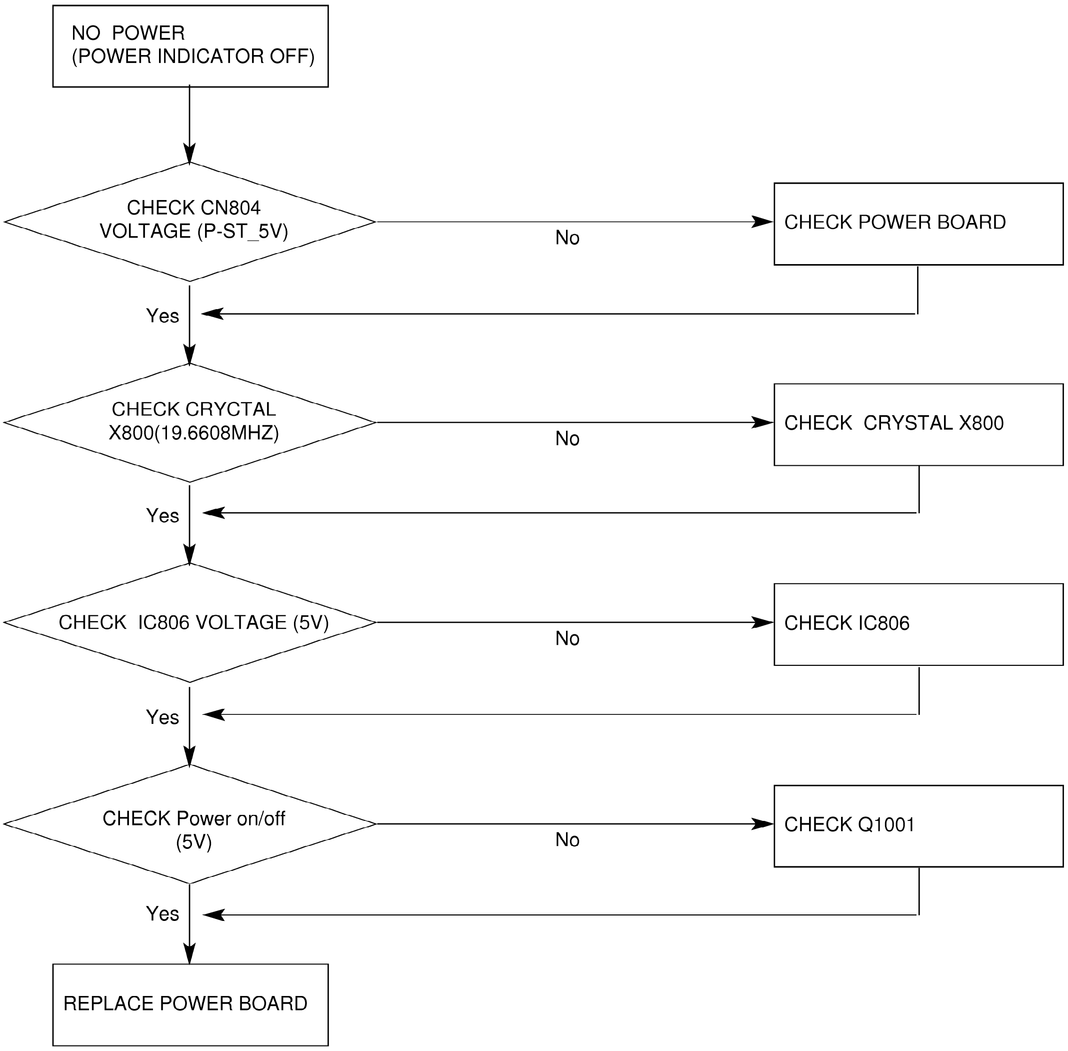
No	Item			Condition	Remark
1	Power			Off	
2	Volume Level			30	
3	Main Picture Input			TV	
4	Main Last Channel			Pr 01	
5	Mute			Off	
6	ARC			16 : 9	
7	Station	Auto Program			
		Manual Program			
		Program Edit			
		Favorite Program		None	
8	Picture	PSM		Dynamic	
		Dynamic	Contrast	100	
			Brightness	45	
			Colour	50	
			Sharpness	50	
9	Sound	SSM		Flat	
		AVL		Off	
		Balance		0	
10	Special	Input		TV	
		Child Lock		Off	
		Auto sleep		Off	
		Language		English(Area Management)	
11	PC	H-Position		Variable by each mode	
		V-Position			
		Clock			
		Phase			
		Auto Configue			

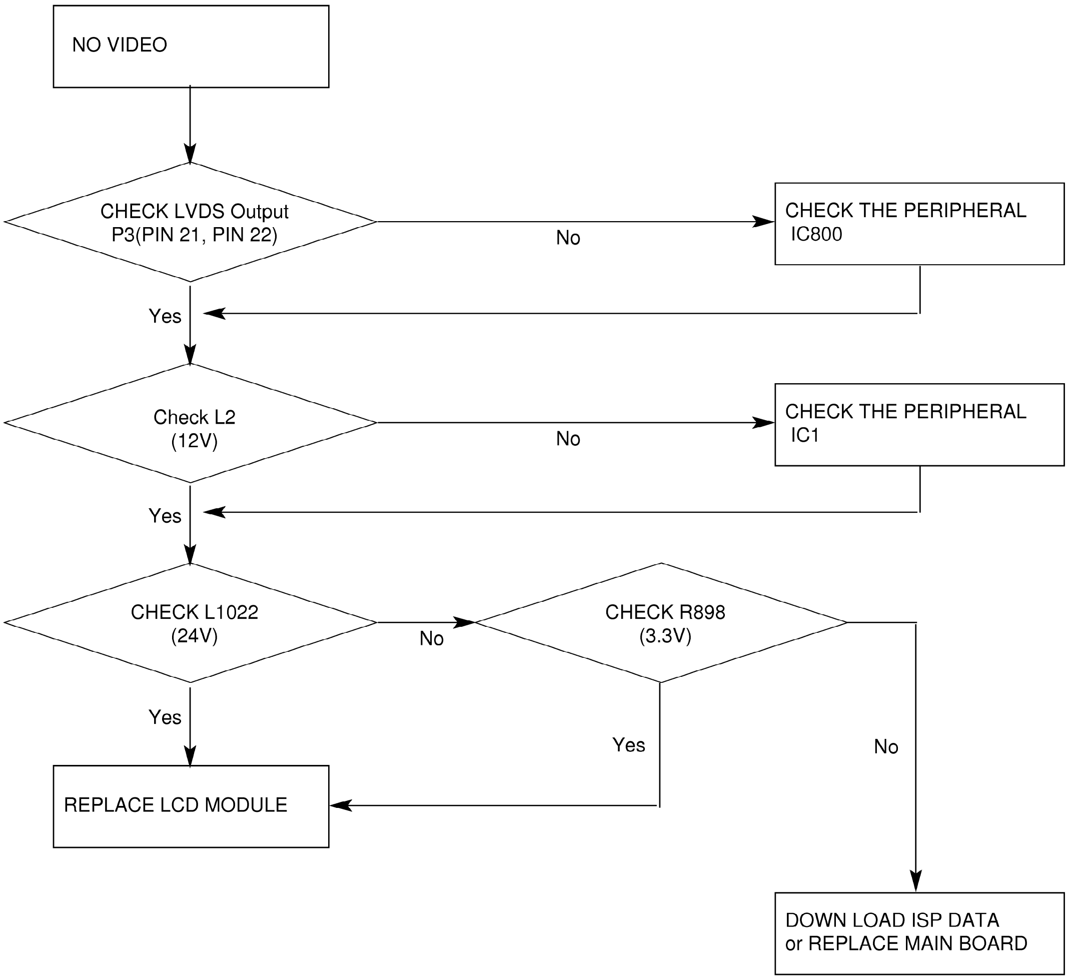
SVC REMOCON

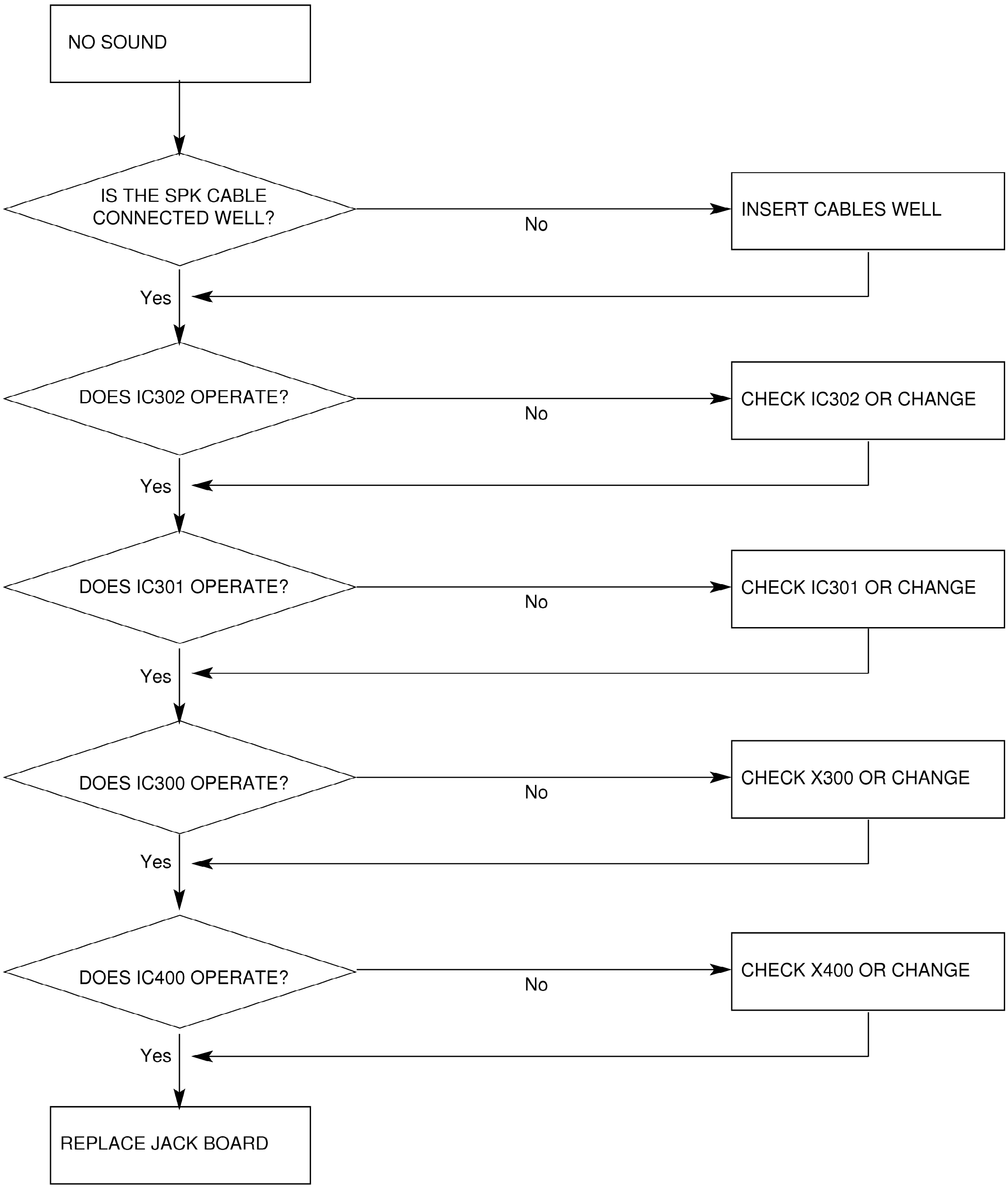
NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets.	Use the AV key to enter the screen W/B adjustment mode.
		To adjust the screen voltage (automatic): In-start → mute → Adjust → AV(Enter into W/B adjustment mode)	
		W/B adjustment (automatic): After adjusting the screen →W/B adjustment →Exit two times (Adjustment completed)	
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMIDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH ±	To move channel up/down or to select a function displayed on the screen.	
21	VOL ±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	



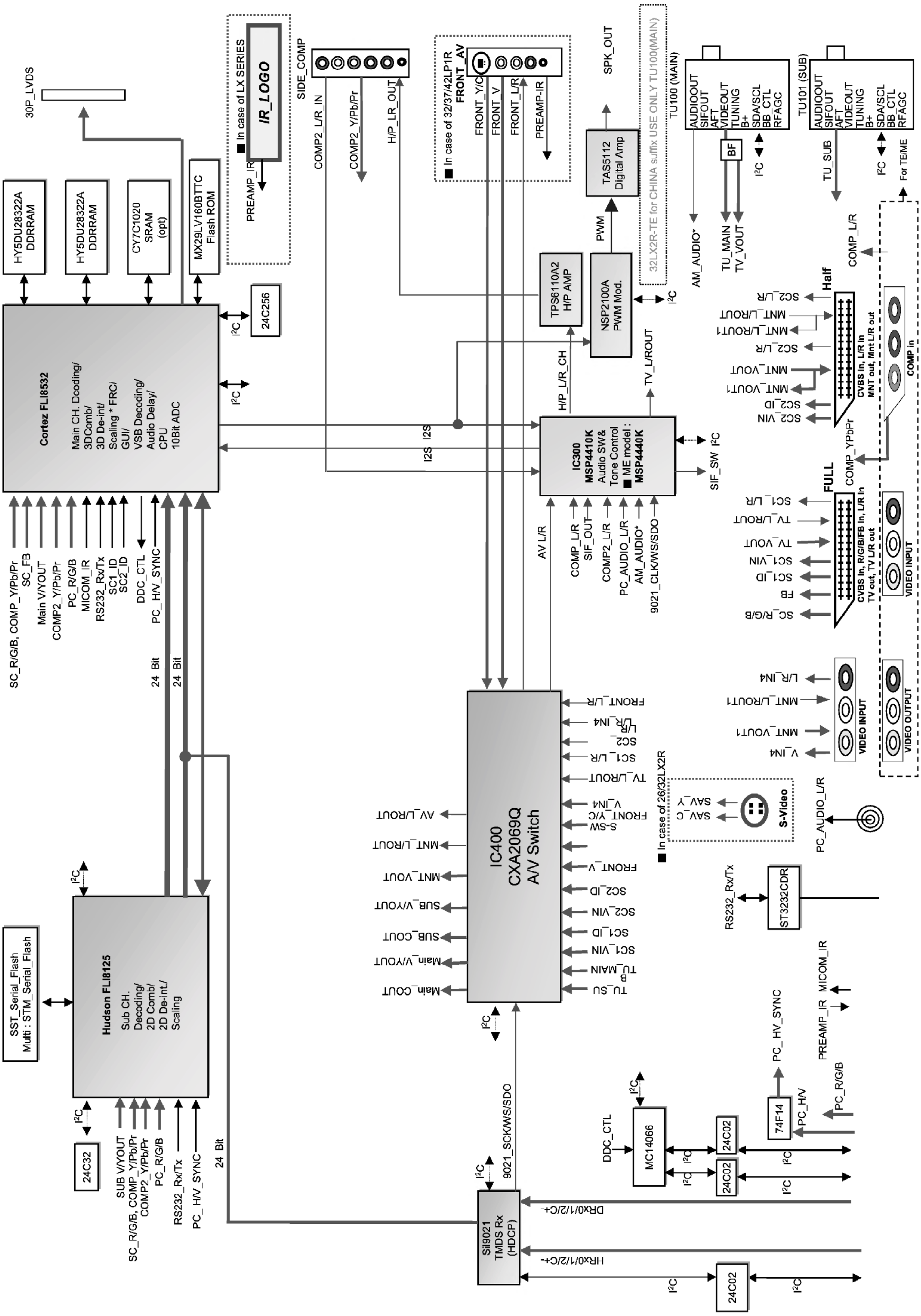
TROUBLESHOOTING


NO POWER
(POWER INDICATOR OFF)
CHECK CN804
VOLTAGE (P-ST_5V)
No
CHECK POWER BOARD
Yes
CHECK CRYCTAL
X800(19.6608MHZ)
No
CHECK CRYSTAL X800
Yes
CHECK IC806 VOLTAGE (5V)
No
CHECK IC806
Yes
CHECK Power on/off
(5V)
No
CHECK Q1001
Yes
REPLACE POWER BOARD


NO VIDEO
CHECK LVDS Output
P3(PIN 21, PIN 22)
No
CHECK THE PERIPHERAL
IC800
Yes
Check L2
(12V)
No
CHECK THE PERIPHERAL
IC1
Yes
CHECK L1022
(24V)
No
CHECK R898
(3.3V)
Yes
Yes
No
REPLACE LCD MODULE
DOWN LOAD ISP DATA
or REPLACE MAIN BOARD

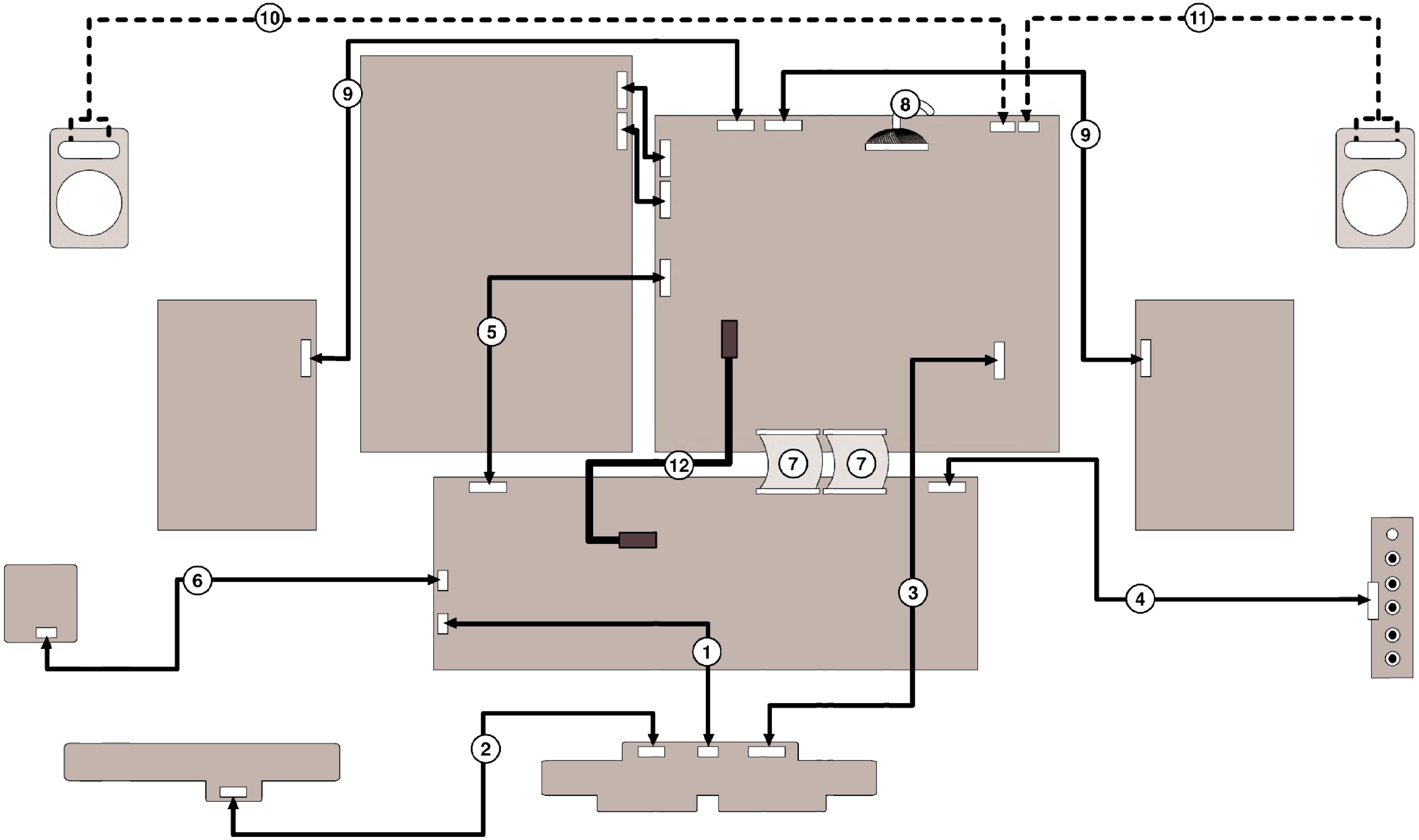

NO SOUND
IS THE SPK CABLE CONNECTED WELL?
No
INSERT CABLES WELL
Yes
DOES IC302 OPERATE?
No
CHECK IC302 OR CHANGE
Yes
DOES IC301 OPERATE?
No
CHECK IC301 OR CHANGE
Yes
DOES IC300 OPERATE?
No
CHECK X300 OR CHANGE
Yes
DOES IC400 OPERATE?
No
CHECK X400 OR CHANGE
Yes
REPLACE JACK BOARD

BLOCK DIAGRAM



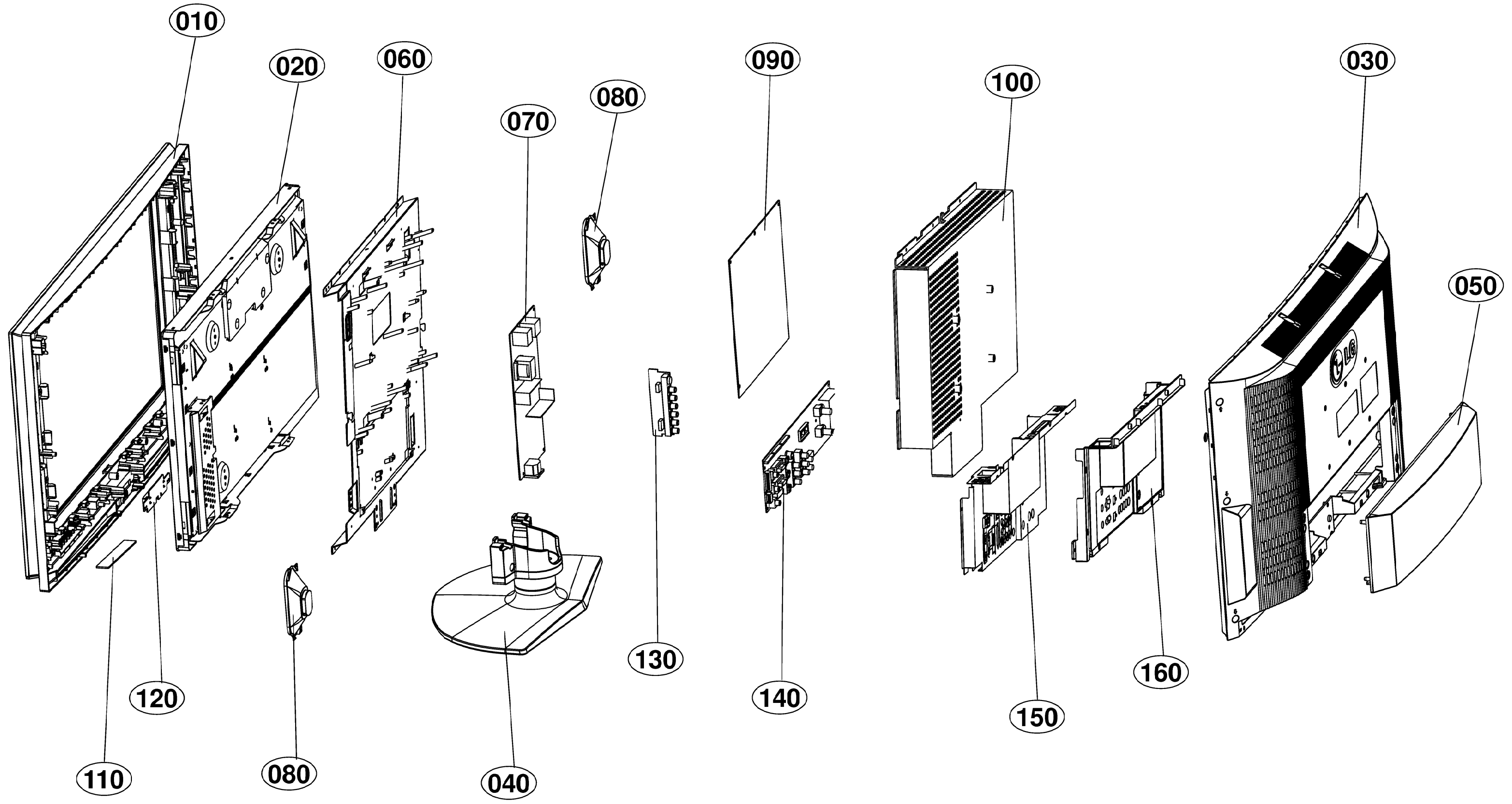
30P_LVDS
HY5DU28322A DDRRAM
HY5DU28322A DDRRAM
CY7C1020 SRAM (opt)
MX29LV160BTTC Flash ROM
24C256
Cortez FLI8532
Main CH. Dcoding/ 3DComb/ 3D De-int/ Scaling * FRC/ GUI/ VSB Decoding/ Audio Delay/ CPU 10Bit ADC
In case of LX SERIES
IR_LOGO
PREAMP_IR
SIDE_COMP
COMP2_L/R_IN
COMP2_Y/Pb/Pr
H/P_LR_OUT
In case of 32/37/42LP1R
FRONT_AV
FRONT_Y/C
FRONT_V
FRONT_L/R
PREAMP-IR
SPK_OUT
TAS5112 Digital Amp
PWM
TPS6110A2 H/P AMP
NSP2100A PWM Mod.
32LX2R-TE for CHINA suffix USE ONLY TU100(MAIN)
TU100 (MAIN)
AUDIOOUT SIFOUT AFT VIDEOUT TUNING B+ SDA/SCL BB_CTL RFAGC
BF
TU101 (SUB)
TU_SUB
For TE/ME
AM_AUDIO*
TU_MAIN
TV_VOUT
COMP_L/R
H/P_L/R_CH
TV_L/ROUT
IC300 MSP4410K Audio SW& Tone Control ■ ME model : MSP4440K
I2S
SIF_SW
AV L/R
COMP_L/R
SIF_OUT
COMP2_L/R
PC_AUDIO_L/R
AM_AUDIO*
9021_CLK/WS/SDO
Half
FULL
SC2_L/R
MNT_L/ROUT
MNT_L/ROUT1
MNT_VOUT
MNT_VOUT1
SC2_ID
SC2_VIN
COMP_YPbPr
CVBS In, L/R In MNT out, Mnt L/R out
COMP in
SC1_L/R
TV_L/ROUT
TV_VOUT
SC1_VIN
SC1_ID
FB
SC_R/G/B
CVBS In, R/G/B/FB In, L/R In TV out, TV L/R out
VIDEO INPUT
L/R_IN4
V_IN4
VIDEO OUTPUT
SC_R/G/B, COMP_Y/Pb/Pr
SC_FB
Main V/YOUT
COMP2_Y/Pb/Pr
PC_R/G/B
MICOM_IR
RS232_Rx/Tx
SC1_ID
SC2_ID
DDC_CTL
PC_H/V_SYNC
24 Bit
IC400 CXA2069Q A/V Switch
FRONT_L/R
L/R_IN4
SC2_L/R
SC1_L/R
TV_L/ROUT
V_IN4
FRONT_Y/C
S-SW
FRONT_V
SC2_ID
SC2_VIN
SC1_ID
SC1_VIN
TU_MAIN
TU_SUB
AV_L/ROUT
MNT_L/ROUT
MNT_VOUT
SUB_V/YOUT
SUB_COUT
Main_V/YOUT
Main_COUT
In case of 26/32LX2R
SAV_Y
SAV_C
S-Video
PC_AUDIO_L/R
RS232_Rx/Tx
ST3232CDR
PREAMP_IR
MICOM_IR
PC_HV_SYNC
74F14
PC_H/V
PC_R/G/B
DDC_CTL
MC14066
24C02
24C02
SST_Serial_Flash Multi : STM_Serial_Flash
Hudson FLI8125
Sub CH. Decoding/ 2D Comb/ 2D De-int./ Scaling
24C32
SUB V/YOUT
SC_R/G/B, COMP_Y/Pb/Pr
COMP2_Y/Pb/Pr
PC_R/G/B
RS232_Rx/Tx
PC_H/V_SYNC
9021_SCK/WS/SDO
SiI9021 TMDS Rx (HDCP)
DRx0/1/2/C+-
HRx0/1/2/C+-
24C02
I2C

WIRING DIAGRAM



NO.	PART NO.	NO.	PART NO.	NO.	PART NO.
1	6631T20033K	5	6631T25023G	9	6631T20032H
2	6631T20037N	6	6631T25024Z	10	6631T25026C
3	6631T20037X	7	6631V10004A	11	6631T25026B
4	6631T20039B	8	6631T11020Z	12	6631T11023D

EXPLODED VIEW


010
020
060
070
080
090
100
030
050
110
120
080
040
130
140
150
160

EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
010	3091TKE037C	CABINET ASSEMBLY, 32LX2R-ZE BRAND CABINET ASSY
	3091TKE037D	CABINET ASSEMBLY, 32LX2R-ZE **CSKD** BRAND CABINET ASSY
020	6304FLP290A	LCD(LIQUID CRYSTAL DISPLAY), **LC320W01-A6K6 LG PHILPS TFT COLOR** WXGA AIODC
	or 6304FLP181A	LCD(LIQUID CRYSTAL DISPLAY), **LC320W01-A6K3 LG PHILPS TFT COLOR** AI ODC
	6304FLP332A	LCD(LIQUID CRYSTAL DISPLAY), **LC320W01-SL05 LG PHILPS TFT COLOR** (SL01, D-IC,INV. MULTI)
030	3809TKE030T	BACK COVER ASSEMBLY, 32LX2R-TE TORNADO 3808TKE025 SET
	3809TKE030U	BACK COVER ASSEMBLY, 32LX2R-TE TORNADO 3808TKE025 **CSKD**
040	3043TKK252B	TILT SWIVEL ASSEMBLY, 32LX2R-ZE STAND ASSY
	3043TKK252E	TILT SWIVEL ASSEMBLY, 32LX2R-ZE **CSKD** STAND ASSY
	3043TKK252J	TILT SWIVEL ASSEMBLY, 32LX2R STAND ASSY **NT LOCAL**
050	3550TKK881C	COVER, 32LX2D NO SPRAY REAR AV COVER
	3550TKK881D	COVER, 32LX2D **CSKD** NO SPRAY REAR AV COVER
060	4951TKS222B	METAL ASSEMBLY, FRAME, METAL ASSY 32LX2R-ZE
	4951TKS222E	METAL ASSEMBLY, FRAME, METAL ASSY 32LX2R-ZE **CSKD**
070	6871TPT316B	PWB(PCB) ASSEMBLY,POWER, 26LX2R-ZE POWER TOTAL BRAND TORNADO 26-32
080	6400GESF01A	SPEAKER,FULLRANGE, C112A02K1450 ESTEC FULL-RANGE(GENERAL) 8OHM 10/15W .DB 110 32LG10
090	3313TL2047C	MAIN TOTAL ASSEMBLY, 32LX2R-TE 2TUNER BRAND ML-051A
	3313TL2047B	MAIN TOTAL ASSEMBLY, 26LX2R-TE BRAND ML-051A-**CSKD**
100	4951TKK238B	METAL ASSEMBLY, FRAME REAR 32LX1D
	4951TKK238D	METAL ASSEMBLY, FRAME REAR 32LX1D **CSKD**
110	6871TSTA53B	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051A 26LX2R-ZE CONTROL KEY
120	6871TSTA52B	PWB(PCB) ASSEMBLY,SUB, 32LX2R-ZE ETC TOTAL BRAND IR & LOGO
130	6871TSTA80B	PWB(PCB) ASSEMBLY,SUB, 32LX2R-ZE ETC TOTAL BRAND SIDE
140	6871TSTB29A	PWB(PCB) ASSEMBLY,SUB, 32LX2R-TE SUB TOTAL BRAND JACK BD
	6871TSTB29B	PWB(PCB) ASSEMBLY,SUB, 32LX2R-TE SUB TOTAL BRAND JACK BD CHINA-**NT LOCAL**
150	4815TKK046G	SHIELD ASSEMBLY, REAR SHIELD ASSY 32LX2R-TE SET
	4815TKK046H	SHIELD ASSEMBLY, REAR SHIELD ASSY 32LX2R-TE **SKD**
160	3551TKK589S	COVER ASSEMBLY, TORNADO 32LX2R-TE REAR AV BRACKET ASSY

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic
CQ : Polyestor
CE : Electrolytic
CF : Fixed Film

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RH : CHIP, Metal Glazed(Chip)
RR : Drawing

DATE: 2005. 09. 06.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITOR				
		C1008	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1010	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1011	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1014	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1015	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1016	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1017	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1020	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1021	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1022	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1024	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1026	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1031	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1032	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1033	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1034	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1041	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1043	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1046	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1047	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1050	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1051	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1052	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1053	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1056	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1057	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1058	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1059	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1062	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1063	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1065	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1066	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1067	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1068	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1071	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1072	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1074	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1076	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1079	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1080	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1086	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1087	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1088	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1089	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1092	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1093	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1094	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1095	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1098	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1099	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1102	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1103	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1104	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1108	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1109	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1111	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1113	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1116	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1118	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1119	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1120	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1121	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1122	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1123	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1124	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1125	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1126	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1127	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1133	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1135	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1137	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1138	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1139	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1143	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1146	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1147	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1149	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1150	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1153	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1154	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1155	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1156	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1159	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1160	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1162	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1163	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1173	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1175	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1176	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1177	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1179	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1180	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1181	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1182	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1183	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1184	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1185	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1186	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1187	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1188	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1192	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1194	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1196	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1198	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1199	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1201	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1203	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1205	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1209	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1210	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1211	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1212	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1213	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1215	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1216	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1217	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1218	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1219	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1220	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1221	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1222	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1223	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1224	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1225	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1226	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1227	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1228	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1229	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1232	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1233	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1234	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1235	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1236	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1237	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1238	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1239	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1240	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1241	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1242	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1243	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1244	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1245	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1246	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1248	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1249	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1250	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1251	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1252	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1253	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1254	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1255	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1256	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1257	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1258	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1259	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1260	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1261	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1262	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1263	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1267	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1269	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1270	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1271	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1272	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1274	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1276	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1277	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1278	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1279	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1280	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1281	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1282	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1284	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1286	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1287	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1288	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1289	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1290	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1291	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1292	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1293	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1294	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1295	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1301	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1303	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1308	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1310	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1315	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1316	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1317	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1318	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1319	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1320	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1321	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1322	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1323	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1324	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1325	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1326	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1327	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1328	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1329	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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		C1400	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1401	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1402	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1403	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1404	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1407	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1409	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1410	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1413	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C302	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C303	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C304	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C305	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C308	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C309	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C310	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C336	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C340	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C342	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C343	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C348	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C349	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C350	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C353	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C354	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C355	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C356	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C357	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C364	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C365	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C366	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C367	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C368	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C369	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C370	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C371	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C376	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C377	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C379	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C385	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C4	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C439	0CH3563K516	56000PF 2012 50V 10% - R/TP
		C440	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		C442	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C446	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C5	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C6	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C602	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C609	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C610	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C611	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C615	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C616	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C619	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C623	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C625	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C628	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C629	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C630	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C638	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C639	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C640	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C644	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C645	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C647	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C648	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C649	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C7	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C703	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C708	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C713	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C721	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C817	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C906	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C907	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C908	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C909	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C910	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C911	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C912	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C913	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C914	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C915	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C916	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C917	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C918	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C919	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C920	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C921	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C922	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C923	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C924	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C925	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C926	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C927	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C928	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C929	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C931	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C932	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C933	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C934	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C935	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C936	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C937	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C938	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C939	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C940	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C941	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C942	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C950	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C951	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1001	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1003	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1005	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1006	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1036	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1038	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1039	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1100	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1101	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1167	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1169	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C201	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C314	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C339	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C346	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C373	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C435	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C444	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C603	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C704	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C705	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C709	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C710	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C711	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C714	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C715	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C717	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C723	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C724	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C725	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C803	0CK105DH56A	1UF 2012 25V 10% X7R R/TP
		C815	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C818	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C820	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C823	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C825	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C826	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C827	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C828	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C829	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C830	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C831	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C832	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C833	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C834	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C835	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C836	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C837	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C306	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C358	0CH2333K516	33000PF 50V 10% B(Y5P) 2012
		C359	0CH2333K516	33000PF 50V 10% B(Y5P) 2012
		C360	0CH2333K516	33000PF 50V 10% B(Y5P) 2012
		C361	0CH2333K516	33000PF 50V 10% B(Y5P) 2012
		C437	0CH6151K416	150PF 2012 50V 5% NP0 -
		C601	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C605	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C606	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C607	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C608	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C613	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C614	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C620	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C621	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C622	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C631	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C632	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C633	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C634	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C635	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C636	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C637	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C650	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C700	0CH6220K416	22PF 2012 50V 5% NP0 -
		C701	0CH6220K416	22PF 2012 50V 5% NP0 -
		C727	0CH6221K416	220PF 2012 50V 5% NP0 -
		C816	0CH6151K416	150PF 2012 50V 5% NP0 -
		C821	0CH6220K416	22PF 2012 50V 5% NP0 -
		C822	0CH6220K416	22PF 2012 50V 5% NP0 -
		C838	0CH6080K116	8PF 2012 50V 0.5 PF C0G R/T
		C839	0CH6080K116	8PF 2012 50V 0.5 PF C0G R/T
		C312	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C313	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C441	0CC821DK41A	820PF 2012 50V 5% NP0 R/TP
		C651	0CH6180K416	18PF 2012 50V 5% NP0 R/TP
		C652	0CH6180K416	18PF 2012 50V 5% NP0 R/TP
		C352	0CE108CJ618	"1000UF SHL,SD 35V 20% FL TP"
		C374	0CE108CJ618	"1000UF SHL,SD 35V 20% FL TP"
		C1002	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1004	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1007	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1009	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1012	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1013	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1018	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1019	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1023	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1025	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1030	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1035	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1037	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1040	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1042	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1045	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1048	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1049	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1054	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1055	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1060	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1061	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1064	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1069	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1070	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1073	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1075	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1078	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1085	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1090	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1091	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1096	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1097	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1110	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1112	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1114	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1117	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1128	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1129	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1130	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1131	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1132	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1134	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1136	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1140	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1142	0CE107WK6DC	100UF MVK 50V 20% R/TP(SMD)
		C1144	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1148	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1151	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1152	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1157	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1158	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1161	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1168	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1174	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1178	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1189	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1190	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1191	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1193	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1195	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1197	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1200	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1202	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1204	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1206	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1207	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1208	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1214	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1230	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1231	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1264	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1265	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1266	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1268	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1273	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1275	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1283	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1285	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1296	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1297	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C1299	0CE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
		C1305	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1307	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1309	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1314	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1405	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1406	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1408	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) S
		C1411	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) S
		C1412	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) S
		C3	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C301	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C307	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C311	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C338	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C341	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C378	0CE475WJ6DC	4.7UF MVK 35V 20% R/TP(SMD)
		C436	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C438	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C443	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C604	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C612	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C624	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C626	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C627	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C641	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C642	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C646	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C653	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C904	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C905	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C952	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C955	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C362	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE N
		C363	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE N
		DIODEs		
		D1003	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1009	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1014	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1001	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1002	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1004	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1006	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		ZD1400	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		IC		
		IC900	0IZZTSA121B	"MX29LV160BTTC-70G,LF MACRON-**NT LOCAL**
		IC301	0ILNR00015A	"NSP-2100A,LF NEOFIDELITY TQ"
		IC701	0IMMRSG036D	"M24C32-WMN6T(P),LF SGS-THOM"
		IC702	0IMMR00004C	"SST25VF040-20-4C-S2AE,LF SS"
		IC804	0IAL242561B	AT24C256W-10SU-2.7V ATMEL 8
		IC901	0IMMRHY052C	"HY5DU281622ETP-5,PB FREE HY"
		IC902	0IMMRHY052C	"HY5DU281622ETP-5,PB FREE HY"
		IC302	0IMCRTI028C	"TAS5122DCARG4,LF TEXAS INS"
		IC700	0IMCR02006A	FLI8125BB-LF GENESIS 208P/P
		IC800	0IMCR02005A	FLI8532BD-LF GENESIS 416P/P
		IC600	0IPRPS5006A	SIL9021CTU(PB FREE) SILICON
		IC1003	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC1004	0IPRPML001A	MIC39100 MICREL 3P SOT223 R
		IC1006	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC1009	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC1012	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC1013	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC303	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VO
		IC801	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VO
		IC806	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VO
		IC1001	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1002	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1005	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1007	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1010	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1011	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC802	0ISA721700C	LA7217M MFP14 TP SYNC SEPAR
		IC401	0IPH741400E	74HC14D 14SOP TP SHITTER TR
		COIL & CORE & INDUCTOR		
		L303	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L304	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L305	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L306	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L1102	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1103	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1104	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1105	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1109	6210TCE001L	HB-1T2012-102JT CERATECH 20
		AB601	6210TCE002B	HB-4M3216-121JT CERATECH 32

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		AB602	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AB603	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AB604	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AB605	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AB606	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AB607	6210TCE002B	HB-4M3216-121JT CERATECH 32
		L1100	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1101	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1000	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1001	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1003	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1004	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1005	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1006	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1007	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1008	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1009	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1010	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1011	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1012	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1013	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1014	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1015	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1016	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1017	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1018	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1019	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1020	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1022	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1025	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1026	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1028	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1029	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1034	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1036	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1037	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1038	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1039	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1040	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1042	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1043	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1044	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1045	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1046	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1047	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1048	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1049	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1050	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1401	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1402	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1403	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L301	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L308	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L309	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L314	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L315	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L316	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L603	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L604	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L605	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L607	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L608	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L609	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L610	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L611	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L612	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1002	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1021	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1031	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1035	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1404	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L2	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L307	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L310	6210TCE001S	HU-1M2012-121 CERATECH 2012

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		L311	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L312	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L313	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L601	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L602	6210TCE001G	HH-1M3216-501 CERATEC 3216M
TRANSISTOR				
		Q1001	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q403	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q1	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		IC1	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A
RESISTORs				
		R627	0RH1004D422	1M OHM 1 / 10 W 1% D R/TP
		AR606	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR700	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR701	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR702	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR703	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR704	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR705	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR801	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR802	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR803	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR804	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR806	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR807	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR808	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR809	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR810	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR811	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR812	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR813	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		R1004	0RH1801D622	1.8K OHM 1 / 10 W 2012 5.00
		R1010	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1012	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1014	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1401	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R1402	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1801	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R1802	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R1807	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R301	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R303	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R304	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R305	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R306	0RH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R328	0RH0471D622	4.7 OHM 1 / 10 W 2012 5.00%
		R329	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R330	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R331	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R334	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R335	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R338	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R346	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R348	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R350	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R352	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R353	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R354	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R359	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R360	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R361	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R362	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R363	0RH0101D622	1.0 1/10W 5 TA
		R364	0RH0101D622	1.0 1/10W 5 TA
		R365	0RH0101D622	1.0 1/10W 5 TA
		R379	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R391	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R392	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R393	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R394	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%

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		R397	0RH0101D622	1.0 1/10W 5 TA
		R456	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R457	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R458	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R459	0RH1503D622	150K OHM 1 / 10 W 2012 5.00
		R462	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R465	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R466	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R468	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R629	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R715	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R716	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R717	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R726	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R727	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R729	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R734	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R739	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R744	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R784	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R785	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R786	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R802	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R809	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R814	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R829	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R842	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R843	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R844	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R865	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R866	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R884	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R885	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R886	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R887	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R890	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R891	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R894	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R896	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R897	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R898	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R899	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R903	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R905	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R906	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R908	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R909	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R910	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R911	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R913	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R920	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R921	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R931	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R941	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R942	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R945	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R947	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		L402	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1000	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1001	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1002	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1003	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R11	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1804	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1805	0RH2702D622	27K OHM 1 / 10 W 2012 5.00%
		R1808	0RH2701D622	2.7K OHM 1 / 10 W 2012 5.00
		R1809	0RH2701D622	2.7K OHM 1 / 10 W 2012 5.00
		R1812	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1813	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1815	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1818	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1820	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1821	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R302	0RH2702D622	27K OHM 1 / 10 W 2012 5.00%

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R307	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R308	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R309	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R310	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R311	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R336	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R337	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R344	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R345	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R369	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R370	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R375	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R460	0RH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R461	0RH0472D622	47 OHM 1 / 10 W 2012 5.00%
		R463	0RH3901D622	3.9K OHM 1 / 10 W 2012 5.00
		R464	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R6	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R620	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R621	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R622	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R624	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R626	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R628	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R630	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R631	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R632	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R633	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R634	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R696	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R698	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R7	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R701	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R711	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R712	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R713	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R714	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R719	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R720	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R721	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R722	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R723	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R724	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R725	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R730	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R731	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R733	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R735	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R736	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R737	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R740	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R741	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R742	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R745	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R747	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R748	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R749	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R750	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R751	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R752	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R754	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R755	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R756	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R762	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R763	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R765	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R776	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R777	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R778	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R779	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R780	0RH2701D622	2.7K OHM 1 / 10 W 2012 5.00
		R781	0RH2701D622	2.7K OHM 1 / 10 W 2012 5.00
		R782	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R783	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R799	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R800	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R801	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R803	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R805	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R808	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R812	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R813	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R815	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R816	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R817	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R818	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R819	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R820	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R821	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R822	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R823	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R824	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R825	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R826	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R827	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R830	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R831	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R832	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R833	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R834	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R835	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R836	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R837	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R838	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R839	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R840	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R841	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R846	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R849	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R850	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R851	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R852	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R861	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R863	0RH2702D622	27K OHM 1 / 10 W 2012 5.00%
		R864	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R867	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R888	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R889	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R892	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R893	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R900	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R901	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R902	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R914	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R915	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R929	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R930	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R932	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R933	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R934	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
OTHERs				
		LED3	0DL233309AC	SAM2333 TP KWANG GREEN/RED
		X401	166-E02F	CSBLA500KECZF09-B0 CSB500F9
		X600	156-A02X	HC49U SUNNY RADIAL 27.000MH
		X700	6212AB2015G	HC-49/SM BUBANG 19.6608MHZ
		X800	6212AB2015G	HC-49/SM BUBANG 19.6608MHZ
CONTROL BOARD				
		SW1201	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1202	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1203	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1204	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1205	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1206	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1207	140-313B	TACT 2LEAD 160G(TA) LG C&D

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		SW1208	140-313B	TACT 2LEAD 160G(TA) LG C&D
		R2111	0RH3001D622	3K OHM 1 / 10 W 2012 5.00%
		R2112	0RH3001D622	3K OHM 1 / 10 W 2012 5.00%
		R2113	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R2114	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R2115	0RH1301D622	1.3K OHM 1 / 10 W 2012 5.00
		R2116	0RH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R2117	0RH1301D622	1.3K OHM 1 / 10 W 2012 5.00
		R2118	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R2119	0RH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R2120	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
IR&LOGO BOARD				
		C3102	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C3103	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C3104	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		L3101	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L3102	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		Q3101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3104	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3106	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3215	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3216	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3217	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R3101	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3102	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3103	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3104	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3105	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3106	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3107	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3108	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3109	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3110	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3111	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3112	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3113	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3114	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3115	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3116	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3117	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3118	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3119	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3120	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R3121	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3123	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3124	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3125	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3126	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3127	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3128	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3129	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3130	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3132	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3134	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3135	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3137	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3138	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3139	0RH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R3140	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R3141	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R3145	0RH5600D622	560 OHM 1 / 10 W 2012 5.00%
		LED3232	0DL200000CA	SAM5670(DL-2LRG) BK Y-GREEN
		RPE3101	6726TV0001A	TSOP4838SO1 VISHAY 38.0KHZ
		C3101	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C3106	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		LED801	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H
		LED802	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H
		LED803	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H

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		LED804	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H
		LED805	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H
		LED806	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H
		LED807	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H
SIDE BOARD				
		C3103	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C3104	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		L3108	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L3109	6210TCE001A	HB-1S2012-080JT CERATEC 201
		R3100	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3101	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3102	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3103	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3104	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3111	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R3113	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R3115	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R3117	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3119	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3123	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3124	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3160	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		ZD3105	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD3106	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD3107	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
JACK BOARD				
		C100	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1001	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C103	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C104	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C105	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1102	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1146	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1147	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C115	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C116	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1169	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C117	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C1171	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1172	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C118	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C119	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C120	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C122	0CK273DK51A	27000PF 2012 50V 10% B(Y5P)
		C123	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C126	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C128	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C129	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1297	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C1306	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C1308	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C1309	0CH3822K516	8200PF 2012 50V 10% B(Y5P)
		C131	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1310	0CH3822K516	8200PF 2012 50V 10% B(Y5P)
		C1314	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C1315	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C1330	0CK225DH94A	"2.2UF 2012 25V 80%,-20% F(Y"
		C135	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C204	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C205	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C220	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C222	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C223	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C224	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C237	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C240	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C241	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C242	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C244	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C301	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C304	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C305	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C307	0CH6560K416	56PF 2012 50V 5% NP0 -
		C308	0CH6560K416	56PF 2012 50V 5% NP0 -
		C309	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C311	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		C313	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		C314	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C316	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C324	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C326	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C330	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C332	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C333	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C335	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C344	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C345	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C375	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C390	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C401	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C402	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C407	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C408	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C409	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C410	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C412	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C415	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C427	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C428	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C654	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C655	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C656	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C658	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C659	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C660	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C663	0CH6120K416	12PF 2012 50V 5% NP0 -
		C664	0CH6120K416	12PF 2012 50V 5% NP0 -
		C669	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		D1003	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D601	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		L100	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1001	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L101	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L102	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1023	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1024	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L104	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L105	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1201	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L202	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L203	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L206	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L207	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L208	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L209	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L211	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L212	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L216	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L217	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L299	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L302	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L400	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L401	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		Q102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q103	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q108	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q113	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q210	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q211	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q213	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q301	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -

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		Q302	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q303	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q304	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q305	0TR102008AA	KRA102S R/TP KEC SOT23 CHIP
		Q306	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q307	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q308	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q309	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q400	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q401	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q402	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q405	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q406	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R1003	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R101	0RH2700D622	270 OHM 1 / 10 W 2012 5.00%
		R1011	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R104	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R105	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R107	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R109	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R110	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R111	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R112	0RH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R114	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R115	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R116	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R117	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R119	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1201	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1202	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1204	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1205	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1206	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1207	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R121	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1219	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R122	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R123	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R124	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R125	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R126	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R129	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R130	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R1304	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1305	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R142	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R143	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R144	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R145	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R151	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R157	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R206	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R207	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R212	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R213	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R214	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R215	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R217	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R219	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R221	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R222	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R223	0RH2702D622	27K OHM 1 / 10 W 2012 5.00%
		R224	0RH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R225	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R226	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R227	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R228	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R229	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R230	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R231	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R232	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R233	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R234	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R236	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R237	0RH0682D622	68 OHM 1 / 10 W 2012 5.00%
		R239	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R252	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R255	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R256	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R257	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R259	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R260	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R261	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R262	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R263	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R264	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R266	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R267	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R268	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R269	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R270	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R271	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R272	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R277	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R279	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R280	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R281	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R282	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R283	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R284	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R285	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R286	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R288	0RH1200D622	120 OHM 1 / 10 W 2012 5.00%
		R294	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R295	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R296	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R297	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R302	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R303	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R304	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R305	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R306	0RH0432D622	43 OHM 1 / 10 W 2012 5.00%
		R307	0RH0432D622	43 OHM 1 / 10 W 2012 5.00%
		R309	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R315	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R317	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R318	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R319	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R320	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R321	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R322	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R323	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R326	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R327	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R328	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R329	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R330	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R331	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R332	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R342	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R343	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R349	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R351	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R355	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R358	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R372	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R381	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R382	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R395	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R396	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R398	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R401	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R403	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R406	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R407	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R408	0RH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R409	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R410	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%

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		R415	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R416	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R417	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R420	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R423	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R426	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R428	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R430	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R444	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R447	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R448	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R643	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R644	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R645	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R651	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R652	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R653	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R654	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R664	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R665	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R667	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R668	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R670	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R671	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R678	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		ZD213	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD214	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD215	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD216	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD300	0DZKE00048A	KDZ8.2V USC KEC R/TP NON
		ZD400	0DR050008AA	SD05.TC R/TP SEMTECH SOD323
		ZD401	0DR050008AA	SD05.TC R/TP SEMTECH SOD323
		ZD604	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD605	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD607	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD608	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD609	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		TU100	6700MF0012A	TAUM-W101P LGIT MULTI FS PH
		TU100	6700MF0012C	TAFM-W103P LGIT MULTI FS PH**-NT LOCAL**
		TU101	6700MF0012B	TAFM-W102P LGIT MULTI FS PH
		ZD1401	0DZ330009DF	MTZJ33B TP ROHM-K DO34 0.5W
		C101	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C102	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C106	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C108	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C110	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1101	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1104	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1105	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C111	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C112	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD)
		C113	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C114	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C1148	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1170	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C121	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C127	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C130	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1300	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C1302	0CE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
		C1304	0CE106VK6DC	10UF MV 50V 20% R/TP(SMD) S
		C1305	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C1307	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C1311	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C1312	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1313	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C134	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C201	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C213	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C215	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C216	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C219	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C221	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)

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		C229	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C230	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C232	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C233	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C236	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C245	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C246	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C248	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C249	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C252	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C253	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C302	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C303	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C312	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C319	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C323	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C325	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD)
		C327	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C328	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C329	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C331	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C334	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C347	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C351	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C372	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD)
		C381	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C382	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C383	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C384	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C386	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C387	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C388	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C389	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C396	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C400	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C404	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C406	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C411	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C416	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C417	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C418	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C419	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C420	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C421	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C422	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C423	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C424	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C425	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C426	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C429	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C430	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C434	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C657	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C661	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C662	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C665	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C666	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		D100	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D101	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D602	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D603	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D604	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D605	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		IC1000	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK"
		IC1001	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC201	0IMCRSG010A	ST3232CDR SGS-THOMSON SOP16
		IC300	0IMCRMN028B	MSP4410K MICRONAS 80P/PQFP
		IC304	0IPRPTI034B	"TPA6110A2DGNRG4,LF TEXAS IN"
		IC400	0ISO206900A	CXA2069Q QFP64 BK I2C BUS A
		IC601	0DRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"
		IC602	0DRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"
		IC603	0DRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"
		IC604	0DRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"

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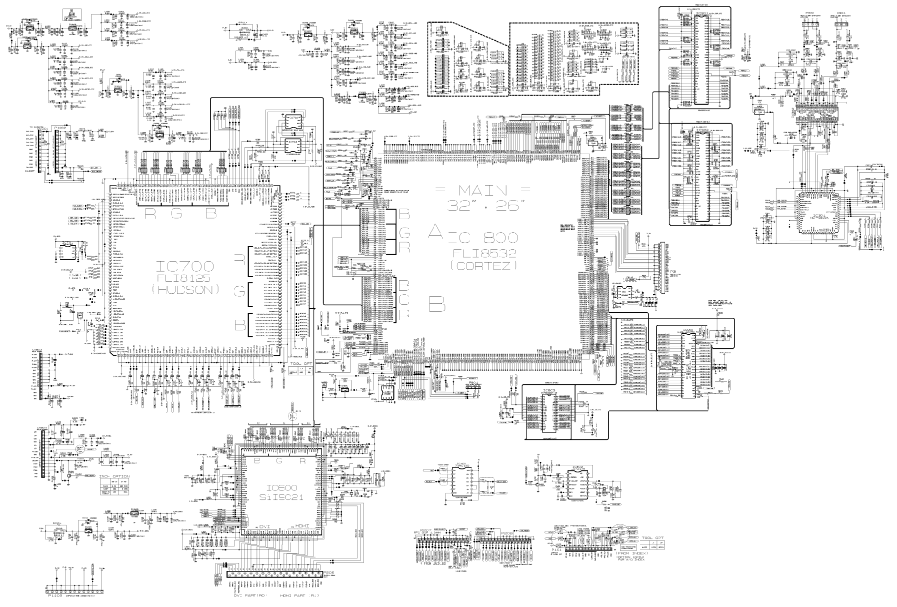
		IC605	0ICS240213A	CAT24W(F)C02J-TE13 8P SOP
		IC606	0ICS240213A	CAT24W(F)C02J-TE13 8P SOP
		IC607	0ISTL00031A	"MC74HC4066ADR2G,LF ON SEMI"
		IC608	0ISTLFA058A	"74F14SCX FAIRCHILD 14P,SOIC"
		IC609	0ICS240213A	CAT24W(F)C02J-TE13 8P SOP
		JK1	6612B00015B	"DC1R019WDH JAE 0.5MM,19PIN+"
		L1002	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L103	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L218	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L219	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L300	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L301	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L606	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		P203	6630VE00731	10022HS-31A02 YEONHO 31P 1.
		P204	6630VE00731	10022HS-31A02 YEONHO 31P 1.
		P205	6602T12007D	GT121-31P-TD LGC 31P 1.25MM
		Q100	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q110	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q111	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q601	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q602	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q603	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q604	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q606	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q607	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R100	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1002	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R102	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1300	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1301	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1302	0RH2002D622	20K OHM 1 / 10 W 2012 5.00%
		R1303	0RH2002D622	20K OHM 1 / 10 W 2012 5.00%
		R242	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R273	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R274	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R275	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R276	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R298	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R299	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R310	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R311	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R312	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R313	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R314	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R316	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R373	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R374	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R377	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R411	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R412	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R418	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R419	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R425	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R427	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R429	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R433	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R434	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R435	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R436	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R437	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R438	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R439	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R440	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R441	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R442	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R443	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R445	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R446	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R449	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R450	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R451	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R605	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R606	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R655	0RH1202D622	12K OHM 1 / 10 W 2012 5.00%

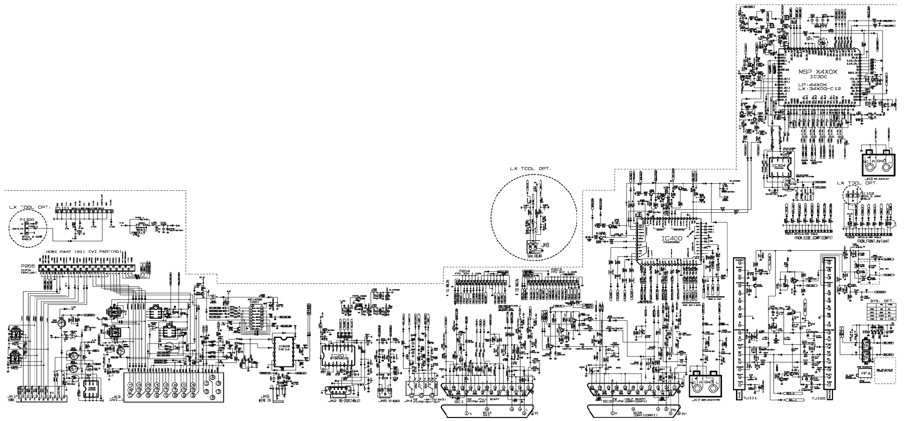
DATE: 2005. 09. 06.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R656	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R657	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R658	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R659	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R660	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R663	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R666	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R669	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R672	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R673	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R674	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R675	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R679	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R680	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R681	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R682	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R683	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R684	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R685	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R690	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R691	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R692	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R693	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R694	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R695	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		X300	6202VDT002H	SX-1 SUNNY 18.432000MHZ +/-
		ZD603	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD606	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD610	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323

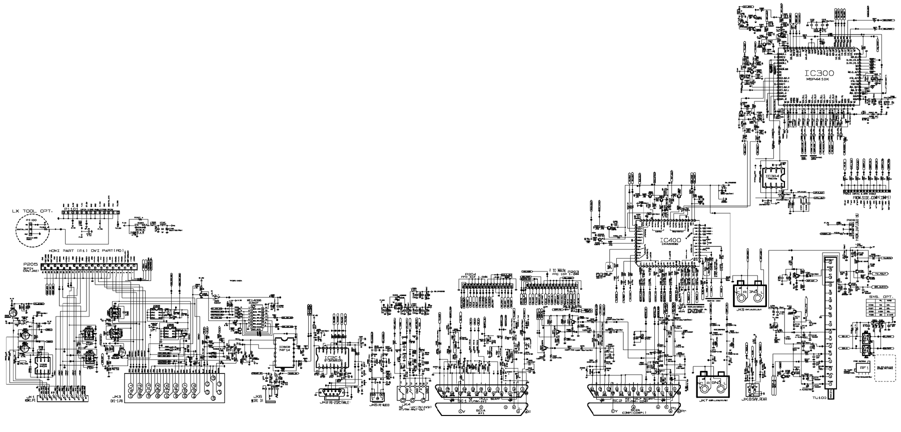

= MAIN =
32" 26"
IC700
FLI8125
(HUDSON)
IC 800
FLI8532
(CORTEZ)
IC600
SI1EC21
R G B
A
B

= INITIAL(32") =
JACK_BD
MP DATA(8-1DR)

APPLIED MODEL
32LX2R, 32LP1R, 37LP1R, 42LP1R


LX TOOL OPT.
IC400
MSP X4XOX
IC300
LX TOOL OPT

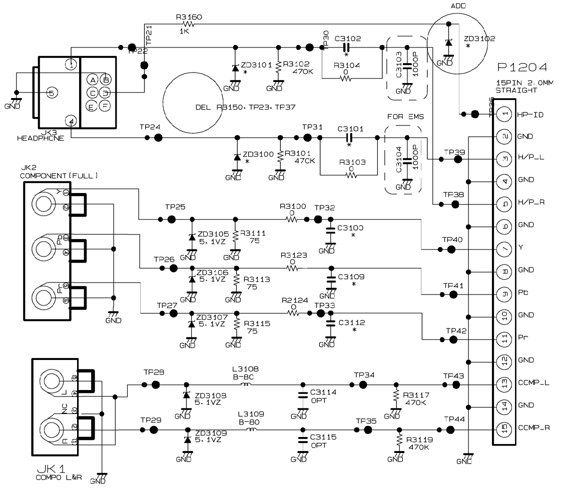
= JACK_BD =
26" ONLY
LP & MP PCB DATA

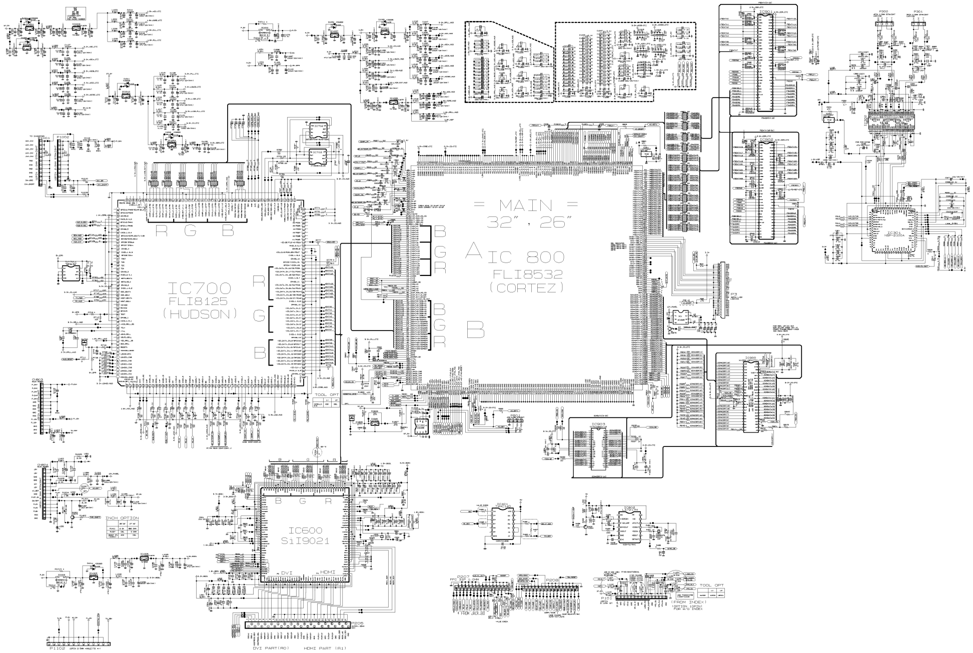

LX TOOL OPT.
IC300
IC400

SIDE_COMP

TORNADO
INITIAL_32
LX TOOL ALSO
USE THIS CIRCUIT

LP TOOL FINAL


R3160
1K
TP21
TP22
TP30
C3102
*
ZD3101
*
R3102
470K
R3104
0
C3103
1000P
ADD
ZD3102
*
GND
P1204
15PIN 2.0MM
STRAIGHT
DEL R3150, TP23, TP37
JK3
HEADPHONE
TP24
TP31
C3101
*
FOR EMS
ZD3100
*
R3101
470K
R3103
0
C3104
1000P
TP36
HP-ID
GND
H/P_L
GND
H/P_R
GND
Y
GND
Pb
GND
Pr
GND
COMP_L
GND
COMP_R
TP39
TP38
JK2
COMPONENT(FULL)
TP25
ZD3105
5.1VZ
R3111
75
R3100
0
TP32
C3100
*
TP40
TP26
ZD3106
5.1VZ
R3113
75
R3123
0
C3109
*
TP41
TP27
ZD3107
5.1VZ
R3115
75
R2124
0
TP33
C3112
*
TP42
TP28
ZD3108
5.1VZ
L3108
B-80
C3114
OPT
TP34
R3117
470K
TP43
TP29
ZD3109
5.1VZ
L3109
B-80
C3115
OPT
TP35
R3119
470K
TP44
JK1
COMPO L&R
NC
L
R
Y
Pb
Pr

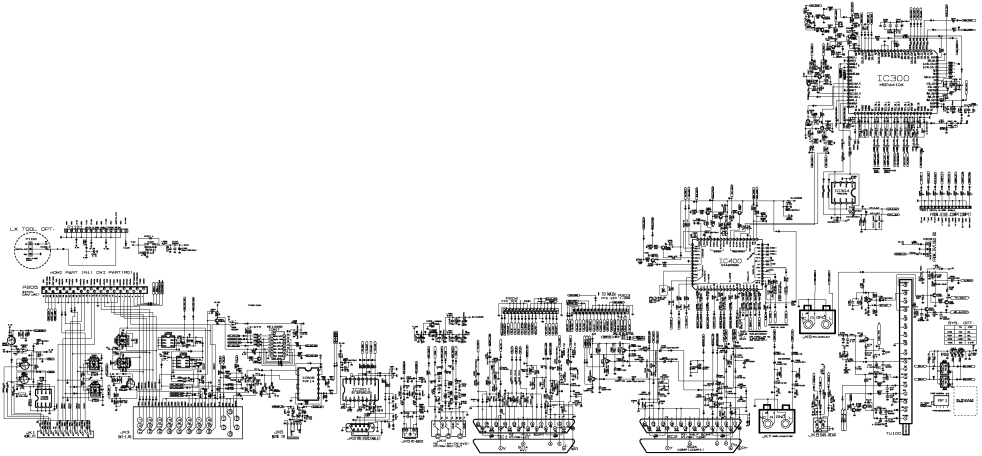

= MAIN =
32", 26"
A
IC 800
FLI8532
(CORTEZ)
B
IC700
FLI8125
(HUDSON)
R G B
R
G
B
IC600
SiI9021
B G R
DVI
HDMI
P206
DVI PART (R0)
HDMI PART (R1)
TOOL OPT
INCH OPTION
P1102
IC301
P300
P301
IC401
IC802
IC903
IC906
P207
P208
P101
TOOL OPT

= JACK_BD =

26" ONLY

LP & MP PCB DATA

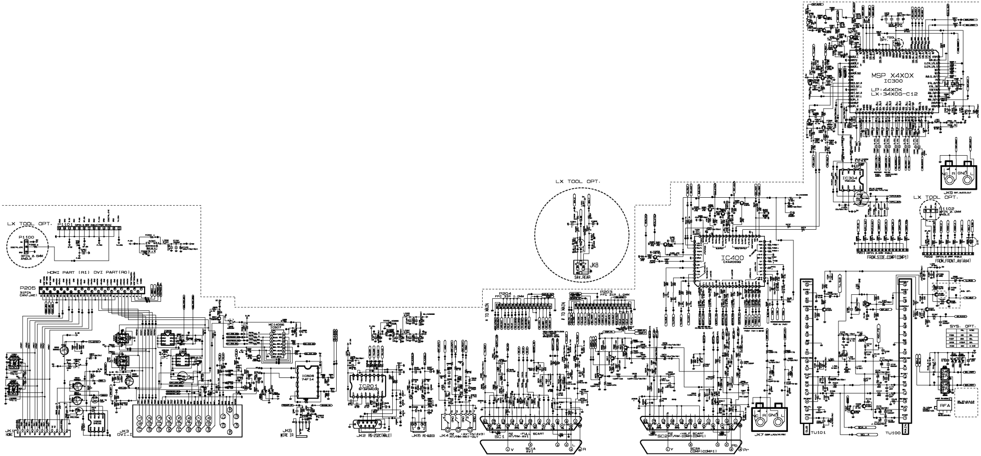
= JACK_BD =
26" ONLY
LP & MP PCB DATA



IC300
MSP4410K
IC304
P201
FROM_SIDE_COMP(COMP1)
IC400
CXA2069Q
P208
LX TOOL OPT.
P1100
P1101
HDMI PART (R1) DVI PART(R0)
P205
31PIN
P204
FFC 31P 1.0MM
# TO MAIN
P203
FFC 31P 1.0MM
MC14066
IC507
IC508
74F14
IC201
ST3232CDR
JK9
JK7
JK8 SAV_REAR
SYS. OPT.
RF1
TU100
JK1
HDMI_P1
JK3
DVI-I_P0
JK6
WIRE IR
JK2 RS-232C(MALE)
JK5 PC-AUDIO
JK4
SC1
SC1A
AV1
SC2
SC2A
COMP(COMP1)

= INITIAL(32") =
JACK_BD
MP DATA(8-1DR)

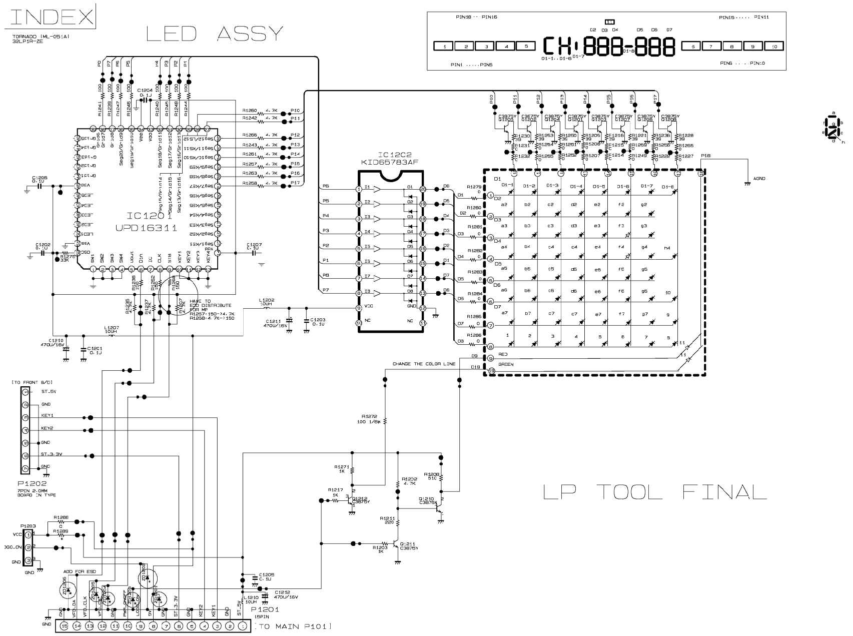
APPLIED MODEL
32LX2R, 32LP1R, 37LP1R, 42LP1R


LX TOOL OPT.
P1100
3PIN 2.0MM ANGLE
P1101
HDMI PART (R1) DVI PART (R0)
P205
31PIN
MC14066
IC507
IC508
74F14
IC201
JK1
HDMI
JK3
DVI-I
JK6
WIRE IR
JK2 RS-232C(MALE)
JK5 PC-AUDIO
JK4
AV-IN(AV3)
LX TOOL OPT.
JK8
SAV_REAR
P204
FFC 31P 1.0MM
TO MAIN
P203
FFC 31P 1.0MM
TO MAIN
SC1
FULL SCART
SC1A
AV1
V
L
R
SC2
HALF SCART
COMP(COMP1)
SC2A
Y
Pb
Pr
IC400
CXA2069Q
JK7
R
GND
L
MSP X4X0X
IC300
LP:44X0K
LX:34X0G-C12
LX TOOL OPT.
IC304
JK9
R
GND
L
LX TOOL OPT.
P1102
P201
FROM_SIDE_COMP(COMP1)
P202
FROM_FRONT_AV(AV4)
SYS. OPT.
TU101
TU100
RFA

INDEX

LED ASSY

TORNADO (ML-05:A)
32LP1R-ZE



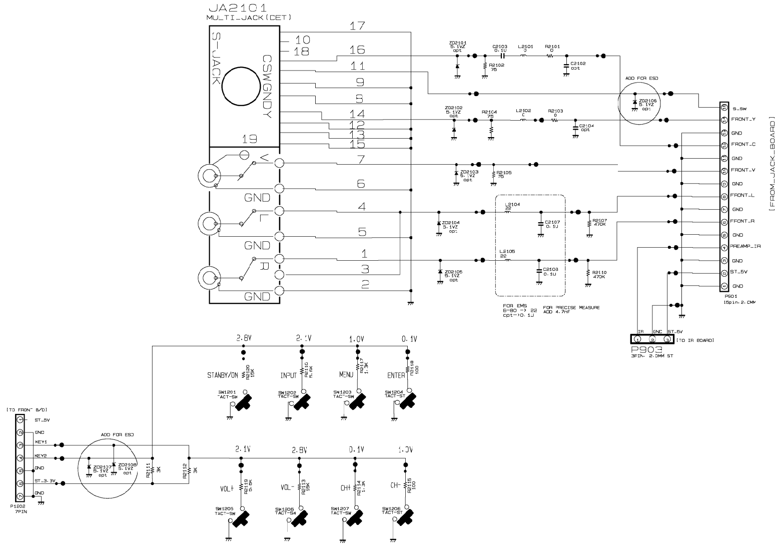
CH 888-888
IC120
UPD16311
IC12C2
KID65783AF
CHANGE THE COLOR LINE
RED
GREEN
P1202
7PIN 2.0MM BOARD IN TYPE
P1203
VCC
30C.0V
GND
ADD FOR ESD
P1201
15PIN
TO MAIN P101
ST.5V
GND
KEY1
KEY2
ST.3.3V
AGND

LP TOOL FINAL

KEY_FRONT

TORNADO
INITIAL_32INCH

LP TOOL FINAL

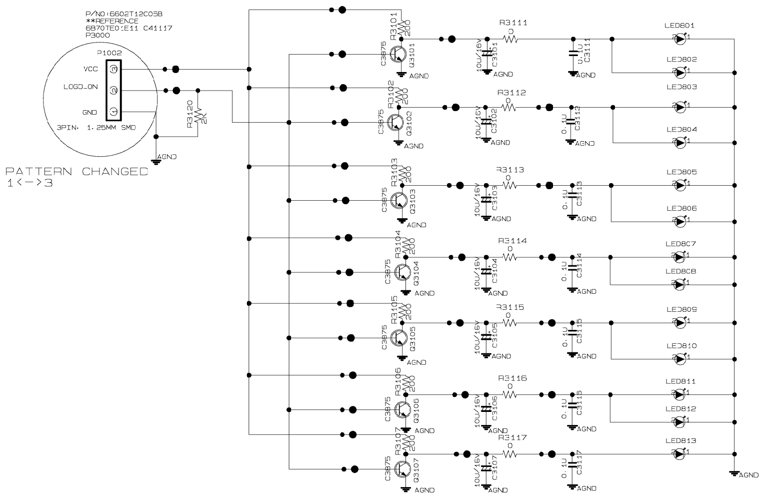


JA2101
MULTI-JACK(CET)
S-JACK
CSWGNDY
19
17
10
18
16
11
9
5
14
7
6
4
5
1
3
2
GND
V
L
R
ADD FOR ESD
FOR EMS
FOR PRECISE MEASURE
P903
3PIN. 2.0MM ST
TO IR BOARD
FROM_JACK_BOARD
P501
15pin 2.0MM
S.5w
FRONT_Y
GND
FRONT_C
FRONT_V
FRONT_L
FRONT_R
PREAMP_IR
ST_5V
2.8V
2.1V
1.0V
0.1V
STANDBY/ON
INPUT
MENU
ENTER
SW1201
SW1202
SW1203
SW1204
VOL+
VOL-
CH+
CH-
SW1205
SW1206
SW1207
SW1208
TO FRONT B/D
P1202
7PIN
ST.5V
GND
KEY1
KEY2
ST.3.3V

LOGO BD

FOR TORNADO
32INCH

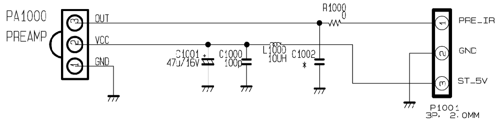
LP TOOL FINAL



P/NO:6602T12C05B
**REFERENCE
6870TE01E11 C41117
P3000
P1002
VCC
LOGO_ON
GND
3PIN. 1.25MM SMD
PATTERN CHANGED
1<->3
R3120
AGND
R3101
R3102
R3103
R3104
R3105
R3106
R3107
Q3101
Q3102
Q3103
Q3104
Q3105
Q3106
Q3107
C3875
R3111
R3112
R3113
R3114
R3115
R3116
R3117
0
10U/16V
0.1U
C3101
C3102
C3103
C3104
C3105
C3106
C3107
C3111
C3112
C3113
C3114
C3115
C3116
C3117
LED801
LED802
LED803
LED804
LED805
LED806
LED807
LED808
LED809
LED810
LED811
LED812
LED813

IR BOARD

32LP1R-ZE
TORNADO

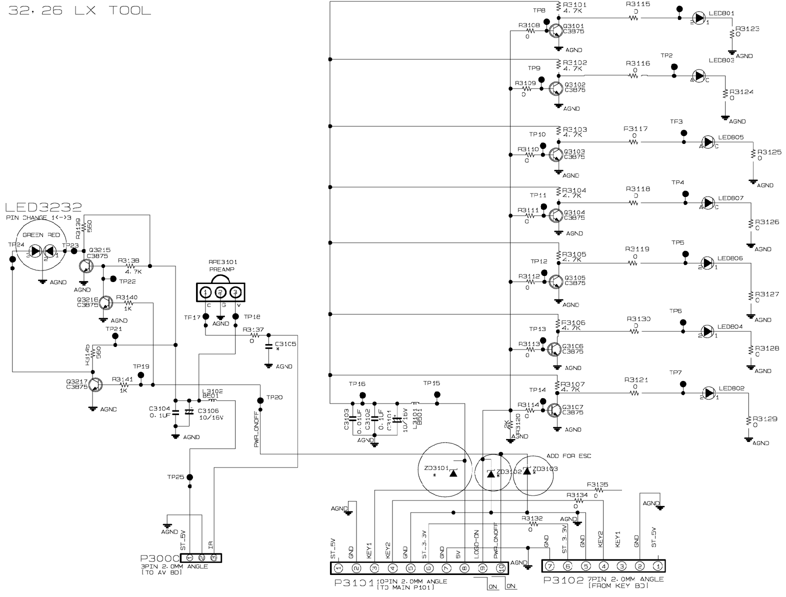


PA1000
PREAMP
OUT
VCC
GND
R1000
0
C1001
47U/16V
C1000
100P
L1000
10UH
C1002
PRE_IR
GND
ST_5V
P1001
3P, 2.0MM

IR_LOGO 3D
FOR TORNADO

32, 26 LX TOOL

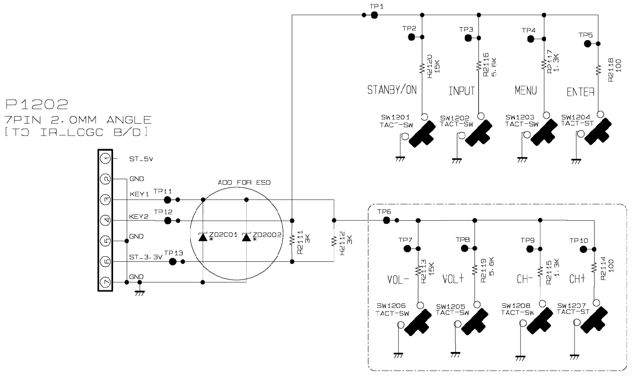
MODIFY FOR LP


LED3232
PIN CHANGE 1<->3
GREEN RED
TP24
TP23
R3139 560
Q3215 C3875
R3138 4.7K
TP22
Q3216 C3875
R3140 1K
TP21
R3145 560
TP19
Q3217 C3875
R3141 1K
C3104 0.1UF
C3106 10/16V
L3102 BE01
RPE3101 PREAMP
C G V
TP17
TP18
R3137 0
C3105 *
TP20
PWR_ONOFF
TP25
AGND
P3000 3PIN 2.0MM ANGLE [TO AV BD]
ST_5V
IR
R3101 4.7K
TP8
R3108 0
Q3101 C3875
R3115 0
TP1
LED801
R3123 0
R3102 4.7K
TP9
R3109 0
Q3102 C3875
R3116 0
TP2
LED803
R3124 0
R3103 4.7K
TP10
R3110 0
Q3103 C3875
F3117 0
TP3
LED805
R3125 0
R3104 4.7K
TP11
R3111 0
Q3104 C3875
R3118 0
TP4
LED807
R3126 0
R3105 4.7K
TP12
R3112 0
Q3105 C3875
R3119 0
TP5
LED806
R3127 0
F3106 4.7K
TP13
R3113 0
Q3106 C3875
R3130 0
TP6
LED804
R3128 0
R3107 4.7K
TP14
R3114 0
Q3107 C3875
R3121 0
TP7
LED802
R3129 0
TP16
TP15
C3103 0.01UF
C3102 0.1UF
C3101 10/16V
L3101 B501
R3120 2K
ZD3101 *
ZD3102 *
ZD3103 *
ADD FOR ESC
F3135 0
R3134 0
R3132 0
ST_5V GND KEY1 KEY2 GND ST_3.3V GND 5V LOGO-ON PWR_ONOFF
P3101 10PIN 2.0MM ANGLE [TO MAIN P101]
ON
ON
GND ST_3.3V GND KEY2 KEY1 GND ST_5V
P3102 7PIN 2.0MM ANGLE [FROM KEY BD]

KEY BD
FOR TORNADO

32, 26 LX TOOL

MODIFY FOR LP


P1202
7PIN 2.0MM ANGLE
[TO IR_LOGC B/D]
ST_5V
GND
KEY1
KEY2
GND
ST_3.3V
GND
TP11
TP12
TP13
ADD FOR ESD
ZD2C01 *
ZD2002 *
R2111 3K
R2112 3K
TP1
TP2
TP3
TP4
TP5
R2120 15K
R2116 5.6K
R2117 1.3K
R2118 100
STANBY/ON
INPUT
MENU
ENTER
SW1201 TACT-SW
SW1202 TACT-SW
SW1203 TACT-SW
SW1204 TACT-ST
TP6
TP7
TP8
TP9
TP10
R2113 15K
R2119 5.6K
R2115 1.3K
R2114 100
VOL-
VOL+
CH-
CH+
SW1206 TACT-SW
SW1205 TACT-SW
SW1208 TACT-SW
SW1207 TACT-ST

LG Electronics Inc.

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